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(54) Title: METHOD OF DEPLOYING AND POWERING AN ELECTRICALLY DRIVEN DEVICE IN A WELL

(57) Abstract: A system for installing a powered device in a downhole tube, comprising a power line disposed along a production tube which terminates in a first power connector, an orientation means disposed in the vicinity of the first power connector, and a powered device including a second power connector. The powered device is lowered down the production tube and oriented by the orientation means so that the first power connector means and second power connector means engage to connect the powered device to the power line. In another embodiment, the system comprises a power line disposed along a production tube, terminating in a first power connector, and a powered device including a second power connector, one or both of the connectors being radially displaced as the powered tool is lowered such that the connectors are aligned for engagement. Also shown in a method where an electrical power cable is connected to a first part of a wet mateable electrical power connector which is secured to a lower region of a production tubing; lowering the production tubing and the electrical power cable into the well; lowering through the production tubing an electrically driven downhole fluid transducer system which is equipped with a second part of a wet mateable electrical power connector; releasably latching the transducer system to the production tubing such that the two parts of the wet mateable power connector face each other, and lowering the electrical submersible fluid transducer system.

WO 2005/003506 A2